

Patent Application of
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for

TITLE: Exchangeable Strap Shoes

CROSS-REFERENCE TO RELATED APPLICATIONS Not Applicable

FEDERALLY SPONSORED RESEARCH Not Applicable

SEQUENCE LISTING OR PROGRAM Not Applicable

BACKGROUND OF INVENTION – FIELD OF INVENTION

This invention relates to an article of footwear, specifically to allow straps to be attached, removed, covered, or exchanged to a shoe base so that many different looks can be achieved.

BACKGROUND OF THE INVENTION – DESCRIPTION OF PRIOR ART

Each of the patents listed below relates to modifying a shoe in some manner, which none is as described in the current invention.

<u>Patent Number</u>	<u>Title</u>
4,670,996	Women's shoes with flexible spring steel shanks for use with replaceable heels of different heights
4,967,492	Adjustable girth shoes
5,682,687	Size-adjustable shoes

U.S. patent 4,670,996 describes a method by which the heel of a shoe can be replaced with another of a different height. The shoes of this invention include straps that are transportable onto a shoe base of a different height, achieving the same affect.

U.S. patent 4,967,492 shows the girth of the shoe being adjusted. To a limited degree, the shoes of this invention result in a similar effect by varying the length of the strap in accordance with the width of an individual's foot. Because shoe bases could be purchased separately, acquiring a shoe of the appropriate length and width for each foot becomes economically feasible.

U.S. patent 5,682,687 shows the length of the shoe being adjusted. As aforementioned, shoe bases could be purchased separately so that acquiring a shoe of the appropriate length and width for each foot becomes economically feasible.

BACKGROUND OF THE INVENTION – OBJECTS AND ADVANTAGES

Conventional shoes are currently manufactured so that each shoe has a single appearance. I realized there were many similarities in the structure of shoes and wanted to find a way to alter a shoe so that it could have more than one appearance.

The current invention is a shoe that will provide to a person the ability to attach, remove, cover, replace, or exchange straps as desired. A shoe base would be provided and contain any number of attachment points whereupon straps could be affixed. The effects of changing the straps are:

- a) straps could be arranged in a different pattern on a shoe base to give the shoe a different appearance;
- b) straps could be removed from a shoe base and placed onto a different shoe base;
- c) straps could be removed from a shoe base and replaced with different straps.

In summary, consumers would easily be given the ability to, in effect, design their own shoes.

The benefits of this superior product are numerous:

- a) As styles and fashions change, new straps could be purchased resulting in a new look.
- b) The consumer would not have to purchase as many shoes, but would enjoy the benefit of having various styles.
- c) Less storage space would be required for both consumers and retailers.
- d) The shoes would be a superior choice for travelers. Less baggage space would be required.
- e) Children would require fewer pairs of shoes. This is an advantage as they quickly outgrow their shoes.
- f) Shoe bases could be purchased separately. This would allow a consumer to have custom-fitted shoes in a cost-effective manner.

POSSIBLE NOVEL FEATURES

The shoes of this invention:

- a) could be the catalyst for a new style of wearing shoes; shoes that are coordinated but are not the same;
- b) could have a customized tag with a 'designed by' individual's name (not shown), which could be attached to an appropriate attachment point on a shoe;
- c) other ornamentation such as beads, charms, fringe, or any other decorative accessories (not shown) could be designed and contain an appropriate attachment piece; the attachment piece could be affixed to an attachment point to serve as a decorative item on a shoe.

DRAWINGS – FIGURES

The objects and advantages of the present invention will become more apparent when viewed in conjunction with the following drawings:

Fig 1 shows a high heel shoe base with preferred strap attachment points, an example of a plain thin width strap with preferred attachment pieces, and an assembled shoe.

Fig 2 shows high heel shoe bases with additional strap attachment points and assembled shoes.

Figs 3, 3A, and 3B show variations of shoe bases and straps as well as assembled shoes.

Fig 4 shows a low heel shoe base, an existing plain strap with alternative attachment points, a patterned thick width strap with alternative attachment pieces, and an assembled shoe.

Fig 5 shows a platform shoe base, an existing plain strap with alternative attachment points, a patterned thick width strap with alternative attachment pieces, and an assembled shoe.

DRAWINGS – Reference Numerals - preferred embodiments- Figs 1, 2, 3, 3A, and 3B

- 10H** High Heel Shoe Base
- 10M** Mid Heel Shoe Base
- 10P** Platform Shoe Base
- 10L** Low Heel Shoe Base
- 12** Guide Loop Attachment Point
- 14** Locking Pin Attachment Piece
- 20** Thin Width Strap
- 22** Medium Width Strap
- 22X** Medium Width Angled Strap
- 24** Thick Width Strap

DETAILED DESCRIPTION – preferred embodiments - Figs 1, 2, 3, 3A, and 3B

Fig 1 shows a high heel shoe base **10H** with strap attachment points **12**, an example of a thin width strap **20** with attachment pieces **14**, and an assembled shoe.

Fig 2 shows a high heel shoe base **10H** with additional strap attachment points **12** at the toe portion of the shoe base and by the heel portion of the shoe base. Also shown are straps appropriate for the heel portion of a shoe.

Fig 3 shows a mid heel shoe base **10M** with strap attachment points **12**, an example of a plain medium width angled strap **22X** with attachment pieces **14**, and a shoe assembled using 2 medium width angled straps **22X** attached in a crossed manner.

Fig 3A shows a low heel shoe base **10L** with strap attachment points **12**, a medium width strap **22** with attachment pieces **14**, and a shoe assembled using 2 medium width straps **22** attached in a parallel manner.

Fig 3B shows a platform shoe base **10P** with strap attachment points **12**, a thick width strap **24** with attachment pieces **14**, and an assembled shoe.

OPERATION – preferred embodiments - Figs 1, 2, 3, 3A, and 3B

The first drawing in Fig 1 shows a high heel shoe base **10H** with strap attachment points **12**. 1A is a close-up of the attachment point connected to the shoe base.

Show next in Fig 1 is the back of a thin width strap **20** which contains locking pin attachment piece **14** on each side of the strap. 1B is a close-up of the back of the strap with the locking pin attachment piece in the open position.

The next drawing in Fig 1 depicts the front of a thin width strap **20** when the locking pin attachment pieces are in the open position. 1C is a close-up of the front of the strap with the locking pin attachment piece **14** in the open position.

The last drawing in Fig 1 is a shoe assembled using high heel shoe base **10H** with 2 thin width straps **20** attached to the shoe base in a parallel manner. The pin of the locking pin attachment piece **14** is placed through guide loop attachment point **12** and placed in a locked position, securing the strap to the shoe base. 1D is a close-up of strap **20** attached to strap attachment point **12** with a locking pin attachment piece **14** in the closed position.

The first drawing in Fig 2 shows a high heel shoe base **10H** with additional strap attachment points **12** placed towards the heel of a shoe. Attached to these strap attachment points **12** is a typical buckle strap **30**, which has locking pin attachment pieces **14** which are used to secure the strap to attachment points **12** of the shoe base in the manner described previously.

The next drawing in Fig 2 shows other additional strap attachment points **12** placed toward the toe portion of a shoe. Attached to strap attachment points **12** at the toe portion of a shoe are 3 thin width straps **20** attached in a parallel manner. Attached to strap attachment points **12** toward the heel of the shoe is ankle tie strap **32**, which has locking pin attachment pieces **14**

which are used to secure the strap to attachment points **12** of the shoe base in the manner described previously.

The first drawing in Fig 3 shows a mid heel shoe base **10M** with strap attachment points **12**.

The next drawing in Fig 3 shows the back of a medium width angled strap **22X**. Shown are locking pin attachment pieces **14** in the open position on each corner of the strap. Shown next is the front of medium width angled strap **22X** with the locking pin attachment pieces **14** in the open position.

The last drawing in Fig 3 is a shoe assembled using the mid heel shoe base **10M** with 2 medium width angled straps **22X** attached to the shoe base in a crossed manner. The locking pin attachment pieces **14** of the medium width angled straps **22X** are used to secure the straps to attachment points **12** of the shoe base in the manner described previously.

The first drawing in Fig 3A shows a low heel shoe base **10L** with strap attachment points **12**.

The next drawing Fig 3A shows the back of a medium width strap **22**. Shown are locking pin attachment pieces **14** in the open position on each corner of the strap. Shown next is the front of medium width strap **22** with the locking pin attachment pieces **14** in the open position.

The last drawing in Fig 3A is a shoe assembled using low heel shoe base **10L** with 2 medium width straps **22** attached to the shoe base in a parallel manner. The locking pin attachment pieces **14** of the medium width straps **22** are used to secure the straps to attachment points **12** of the shoe base in the manner described previously.

The first drawing in Fig 3B shows a platform heel shoe base **10P** with strap attachment points **12**.

The next drawing in Fig 3B shows the back of a thick width strap **24**. Shown are locking pin attachment pieces **14** in the open position on each corner of the strap. Shown next is the front of thick width strap **24** with the locking pin attachment pieces **14** in the open position. Strap **24** is shown as a colored strap with a ruffled edge.

The last drawing in Fig 3B is a shoe assembled using platform shoe base **10P** with thick width strap **24** attached to the shoe base. The locking pin attachment pieces **14** of thick width strap **24** are used to secure the straps to attachment points **12** of the shoe base in the manner described previously.

DRAWINGS – Additional Reference Numerals - Alternative Embodiments - Figs 4 and 5

12H Hook and Loop Attachment Point

12O Snap Opening Attachment Point

14V Hook and Loop Attachment Piece

14S Snap Attachment Piece

24H Thick Width Strap with Hook and Loop Attachment Point

24O Thick Width Strap with Snap Opening Attachment Point

24V Thick Width Strap with Hook and Loop Attachment Piece

24S Thick Width Strap with Snap Attachment Piece

DETAILED DESCRIPTION – Alternative Embodiments - Figs 4 and 5

Fig 4 shows a low heel shoe base **10L** with thick width strap **24H** affixed to it. Strap **24H** is equipped with attachment points **12H** at each corner of the strap. Thick width strap **24V** with attachment pieces **14V** is then shown, along with a shoe assembled using thick width strap **24V**.

Shoe base **10L** of Fig 4 also has attachment points **12** towards the heel of the shoe. Ankle buckle strap **30** containing attachment point **14** is attached in the manner described previously.

Fig 5 shows a platform shoe base **10P** with thick width strap **24O** affixed to it. Strap **24O** is equipped with attachment points **12O**. Thick width strap **24S** with attachment pieces **14S** is then shown, along with a shoe assembled using thick width strap **24S**.

OPERATION – Alternative Embodiments - Figs 4 and 5

Fig 4 shows a low heel shoe base **10L**. The front portion of the shoe has a thick width strap **24H** affixed to shoe base **10L**. Strap **24H** is equipped with hook and loop attachment points **12H** at each corner of the strap. 4A is a close-up of attachment point **12H** on strap **24H**.

The next drawing in Fig 4 is the back of a thick width strap **24V** which contains the corresponding hook and loop attachment piece **14V** on each corner of the strap. 4B is a close-up of the back of the strap with the corresponding hook and loop attachment piece **14V**. The drawing next to it depicts the front of thick width strap **24V**.

The last drawing in Fig 4 is a shoe assembled using low heel shoe base **10L** with thick width strap **24V** attached so that it covers strap **24H**.

Fig 5 shows a platform shoe base **10P**. The front portion of the shoe has a thick width strap **24O** affixed to shoe base **10P**. Strap **24O** is equipped with snap opening attachment points **12O** at each corner of the strap. 5A is a close-up of attachment point **12O** on strap **24O**.

The next drawing in Fig 5 is the back of a thick width strap **24S** which contains snap attachment piece **14S** on each corner of the strap. **5B** is a close-up of the back of the strap with snap attachment piece **14S**. The drawing next to it depicts the front of thick width strap **24S**.

The last drawing in Fig 5 is a shoe assembled using platform **10P** with thick width strap **24S** attached so that it covers strap **24O**.

CONCLUSIONS, RAMIFICATIONS, AND SCOPE

Accordingly, the reader will see that the shoes of this invention provide a consumer the ability to easily and cost effectively own shoes with many different fabrics, colors, and styles of strap configurations.

The transportability of straps from one shoe base to another is one of the most desirable advantages of the aforementioned shoe. Another highly desirable feature is the ability to rearrange the straps in different methods on the toe portion of the shoe. Different colors, fabrics, and patterns can be used as the consumer wishes. Yet another advantage of the shoe is the ability to change or remove straps that support the ankle at the heel portion of the shoe. As with the straps at the top portion of the shoe, different colors, fabrics, and patterns can be used as the consumer wishes.

Although not shown in the drawings, there are features mentioned in the "possible novel features" paragraph that are worth consideration. First mentioned is the idea for wearing shoes that are coordinated, but are not the same. In a world where fashion styles come and go, and then resurface again, this is something that hasn't been done before! Also mentioned are decorative pieces or design tags that could be equipped with an appropriate attachment piece and secured to the attachment points on a shoe base, providing the opportunity to create a truly unique shoe.

In summary, consumers would easily be given the ability to, in effect, design their own shoes.

In order to convey an understanding of the present invention, it has been described above in terms of presently preferred embodiments as well as additional alternative embodiments. However, there are many configurations for shoes with exchangeable straps that are not specifically described herein but with which the present invention is applicable. Therefore, the present invention should not be seen as limited to the particular embodiments described herein because it has applicability to a wide variety of shoe designs. All modifications, variations, or equivalent arrangements that are within the scope of the attached claims should be considered within the scope of this invention.

Thus, the scope of this invention should be determined by the appended claims and their legal equivalents, rather than by the examples given.